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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/608,871	06/27/2003	John M. de Larios	LAM2P422	7473
	7590 05/16/200 NILLA & GENCAREI	EXAM	EXAMINER	
710 LAKEWAY DRIVE SUITE 200 SUNNYVALE, CA 94085			STINSON, FRANKIE L	
			ART UNIT	PAPER NUMBER
SOMM T VALLE	C/1 /4003		1746	
			MAIL DATE	DELIVERY MODE
			05/16/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
Office Action Summer	10/608,871	DE LARIOS			
Office Action Summary	Examiner	Art Unit			
	FRANKIE L. STINSON	1746			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6). MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ARANDONE.	I. nely filed the mailing date of this communication.			
Status					
1) Responsive to communication(s) filed on 23 Ma	Responsive to communication(s) filed on <u>23 March 2007</u> .				
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This					
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)  Claim(s) 1-23,25-32 and 34-37 is/are pending i 4a) Of the above claim(s) is/are withdraw 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-23, 25-32 and 34-37 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examiner	•				
10) The drawing(s) filed on is/are: a) □ acce	epted or b)  objected to by the E	Examiner.			
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the priori application from the International Bureau</li> <li>* See the attached detailed Office action for a list of</li> </ul>	have been received. have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage			
Attachment(s)					
Notice of References Cited (PTO-892)   Interview Summary (PTO-413)					

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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2. Claims 1-23, 25-32 and 34-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Kittle (U. S. Pat. No. 6,090,217). In view of Patel et al. (U. S. pat. App. Pub. No. 2003/0171239.

Re claims 1, 13, 20 and 30, note that Kittle discloses a method/apparatus for removing a layer from a substrate surface, comprising:

providing at least one encapsulating transport (foam/bubble), the encapsulating transport containing at least some reactive gas ("air" and "other gases" col. 6, lines 18-24);

applying the at least one encapsulating transport to the layer, the layer being a chemically reactive layer (note the substrate is "chemically treated", col. 5, line 43); and wherein the encapsulating transport ruptures on the chemically reactive layer and releases the reactive gas onto the chemically reactive layer to facilitate removal of the layer from the substrate surface. Also note the reducing agent (40, DI water), the organic material (col. 1, lines 47-62), the oxygen, nitrogen and argon in that air is composed of these gases and other gases (see "Air Composition", PHYSLINK.COM, see attached), the mixer (36), the application unit being a container (18 see fig. 7) and the sparger (see fig. 8, 9) that differ from the claims only in the recitation of the reactive gas including ozone. Patel (see paragraph 0114) discloses that it is old and well known

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to employ an encapsulant (foam-based cleaning material) where the same includes a reactive gas namely ozone. It therefore would have been obvious to one having ordinary skill in the art to modify the encapsulation transport in Kittle, to include ozone as taught by Patel, since Kittle discloses that other gases may be employed as noted above. Ozone is widely used in the semiconductor art to enhance the treatment process due to the active free radical. Re claims 2-12, 14-19, 21-23, 25-29, 31, 32 and 34-37, Kittle and Patel disclose the gases bubbles, and other fluids as claimed

- 3. Applicant's arguments with respect to the pending claims have been considered but are moot in view of the new ground(s) of rejection.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to FRANKIE L. STINSON whose telephone number is (571) 272-1308. The examiner can normally be reached on M-F from 5:30 am to 2:00 pm and some Saturdays from approximately 5:30 am to 11:30 am.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr, can be reached on (571) 272-1700. The fax phone number for the organization where this application or proceeding is assigned is 571-272-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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FRANKIE L. STINSON
Primary Examiner
GROUP ART UNIT 1746